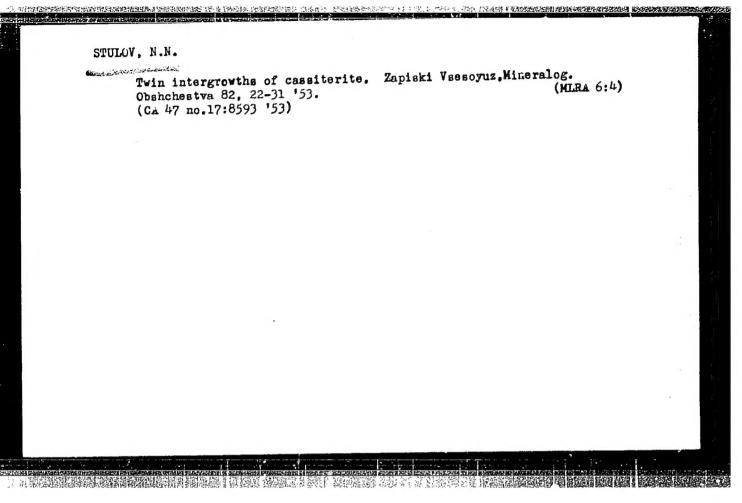
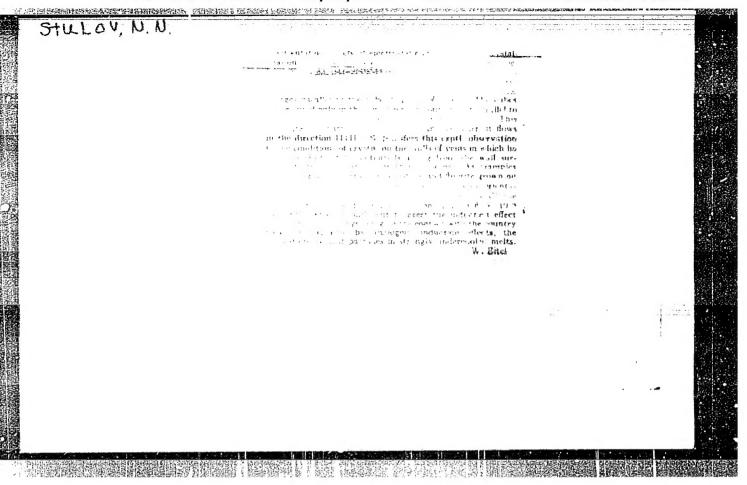
30753. STLLOV, N. N.

Kristally l'da. Zapiski Vsesoyuz. mineral. o-va, 2-ya seriya, 19h9, vyp. 3, s. 172-76.





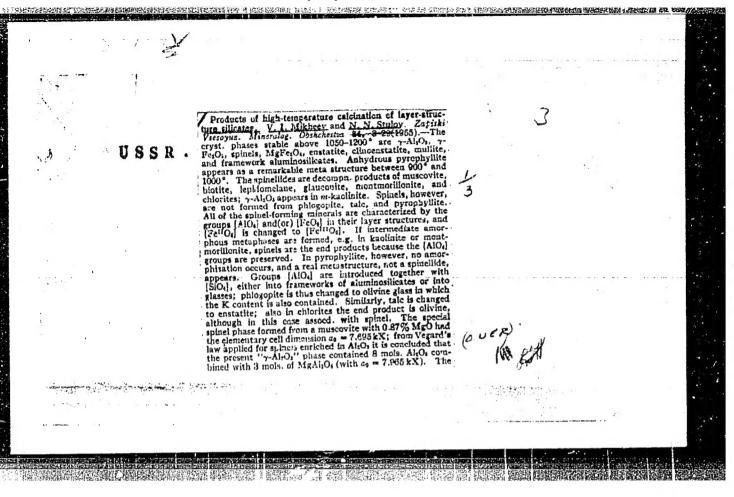
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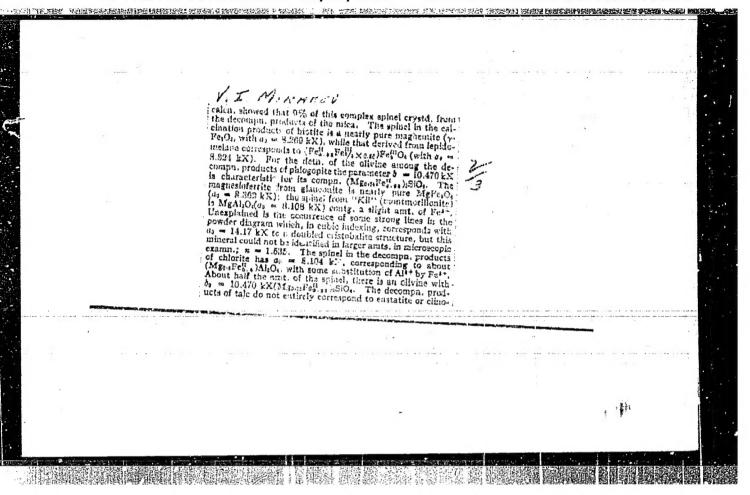
FERSMAN, Aleksandr Yevgen'yevich, 1883-1945; BELYANKIN, D.S., akademik, redaktor [deceased]; SHAFRANOVSKIY, I.I., prof., redaktor; STULOV, N.N. redaktor; SMIRNOVA, A.V., tekhnicheskiy redaktor

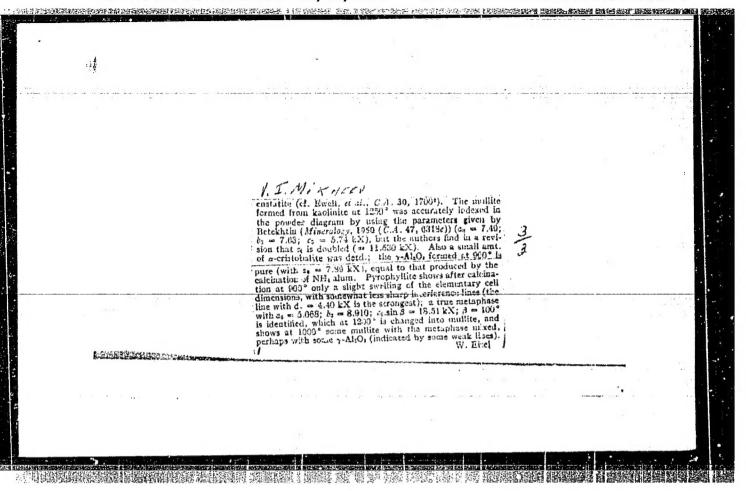
[Crystallography of diamonds] Kristallografiia almaza. Red.i kommentarii D.S.Beliankina i I.Shafranovskogo. [Moskva] Izd-vo Akademii nauk SSSR, 1955. 566 p. (MLRA 9:1)

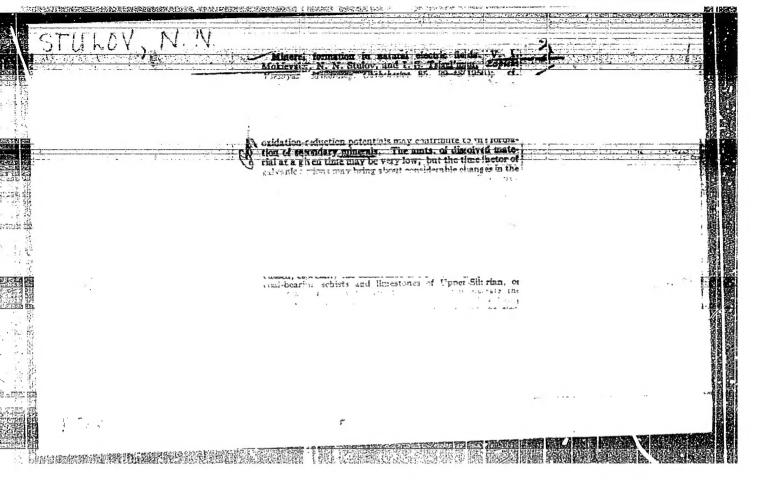
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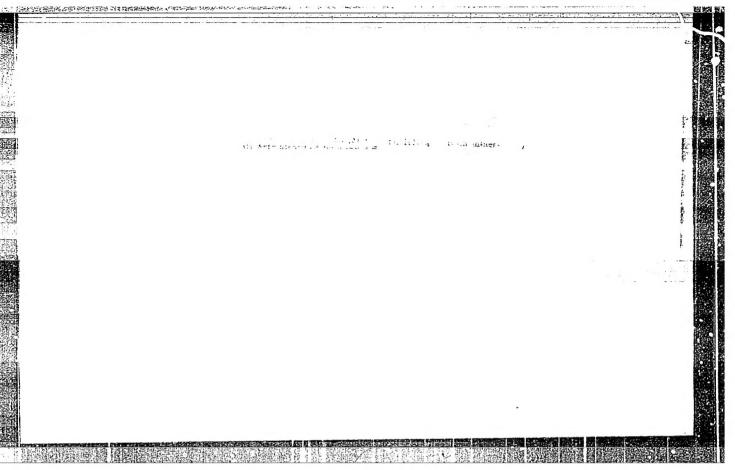
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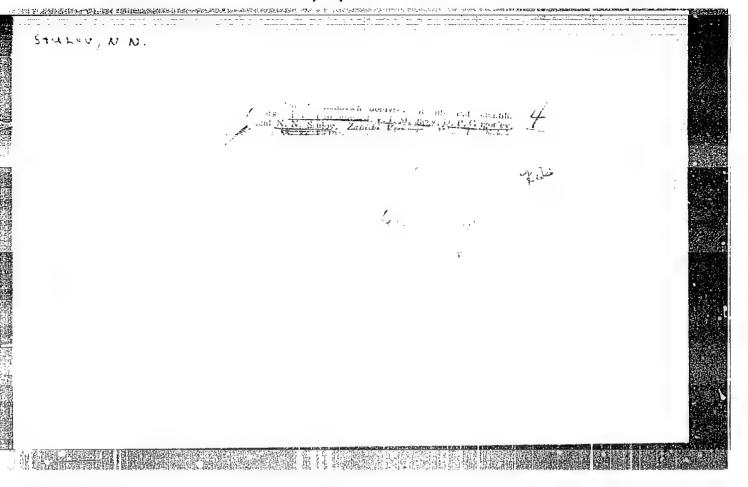




MOKIYEVSKIY, V.A.; STULOV, N.N.; TSIGEL'MAN, I.S.

Mineralization in a natural electrical field. Zap.Vees.min.eb-va
85 no.1:39-48 '56. (MIRA 9:7)

(Mineralogical chemistry)



STULOV, N.N.; SHAFRAHOVSKIY, I.I.; IAZARENKO, Ye.K.

Viktor Ivanovich Mikheev; obituray. Min.sbor. no.11:403-406
(MIRA 13:2)

157.

(Mikheev, Viktor Ivanovich, 1912-1956)

TATARSKIY, V.B.; FRANK-KAMENETSKIY, V.A.; BURAKOVA, T.N.; NARDOV, V.V.;
PINTHOV, T.G.; KOHDRAT'YEVA, V.V.; KAMENTSEV, I.Yo.; CHERNYSHEVA,
V.F.; ALEKERTEVA, N.P.; ARTSTBASHEVA, T.F.; BARAHOVSKAYA, N.I.;
BUSSEN, I.V.; VERMERTSKO, I.A.; GREVUSHEV, W.A.; GOYKO, Ye.A.;
KOKKOV, A.I.; KOTOVICH, V.A.; LITVINSKAYA, G.P.; MIKHEYEVA, I.V.;
MOKIYEVSKIY, V.A.; PETROVA, L.V.; POPOV, G.M.; SAFRONOVA, G.P.;
SCEGOLEVA, V.V.; STULOV, N.N.; TUGARINOVA, V.G.; SHAFRANOVSKIY, I.I.;
SHTERRBERG, A.A.; YANULOV, K.P.

O.M. Ansheles; obituary. Vest. IQU 12 no.18:152-154 '57. (MIRA 11:3)
(Ansheles, Osip Markovich, 1385-1957)

70-2-1/24 Shafranovskiy, I.I. and Stulov, N.N.

AUTHOR: Viktor Ivanovich Mikheev - Obituary

"Kristallografiya" (Crystallography), 1957, Vol.2, TITIE: No.2, pp. 203-206 (U.S.S.R.) PERIODICAL:

ABSTRACT: Professor Mikheev died suddenly in December, 1956 at the age of 45. He became interested at a vey early age in crystallography. In March, 1936, he defended successfully his dissertation "Standard Debye rings of cast stone minerals". In the same year, he became "Dozent" of the Chair of Crystallography and lecturer on the course of general crystallography and Xray investigation of crystals. Except for his military service during the war, he was associated throughout his life with the Mining Institute (Gornyy Institut). He published over 75 scientific papers and, in addition, he wrote 56 scientific reports on investigations of individual minerals and their groups carried out for various scientific and industrial establishments. For identifying the composition of mixtures and of minerals, the Debye Scharrer method was considered the most appropriate but, for this purpose, it was necessary to compile appropriate in their definite order the data calculated from and arrange in their definite order the order that calculated from minerals to be used as standards. This enormous task was materialised by publishing the "Roendgenometric" determination card 1/2

Viktor Ivanovich Mikheev - Obituary. (Cont.) 70-2-1/24

of minerals, the first part of which contains data for 142, the second part for 146 minerals; CTARDPS6009513R001653710002-6"
APPROVED FORMELEASE 08/26/17000 print shortly before the death of Professor Mikheev. In addition to the colossal work involved in compiling the above mentioned book, Mikheev carried out roendgenometric investigations of individual minerals and their groups, and the results of this work were published in individual papers. It is largely due to his work that roendgenometric diagnosis of minerals is so successfully used in the Soviet Union. From 1950 onwards, Prof. Mikheev published numerous papers on homology problems and later on he published the monograph "Homology of Crystals" which also served as a doctor dissertation (in 1952). His work on homology was highly valued by the Soviet Ac.Sc. and he was awarded in 1950 the E.S. Fedorov prize for this work. Mikheev produced 218 types of homology and these allowed accurate classification and systemisation of crystals with low degrees of symmetry. The work on homology enabled solution of the practically important problem of identifying the Debye rings of low symmetry substances. In 1953, card 2/2 Mikheev was nominated Professor of the Crystallography Chair.

AVAILABLE: Library of Congress

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STULOV. N.N.; SHAFRANOVSKIY, I.I.; MOKIYEVSKIY, V.A.; POPOV, G.M.; BETEKHTIN, A.G.; NIKOLAYEV, V.A.; ANSHELES, O.M.; GRIGOR'YEV, D.P.;
YEROFEYEV, B.N.; TATARSKIY, V.B.; SOLOV'YEV, S.P.; NIKITIN, V.D.;
RUDENKO, S.A.; DUBININA, V.N.; ALYAVDIN, V.F.; VLADIMIROV, B.N.;
KAZITSYN, Yu.V.; FRANK-KAMENETSKIY, V.A.; KALININ, A.I.; BALASHOVA, M.N.; SAL'DAU, E.P.; DOLIVO-DOBRGVOL'SKAYA, G.M.; LAVHENT'YEV, M.F.

Viktor Ivanovich Mikheev. Zap. Vses. min. ob-va 86 no.2:317-320
'57.

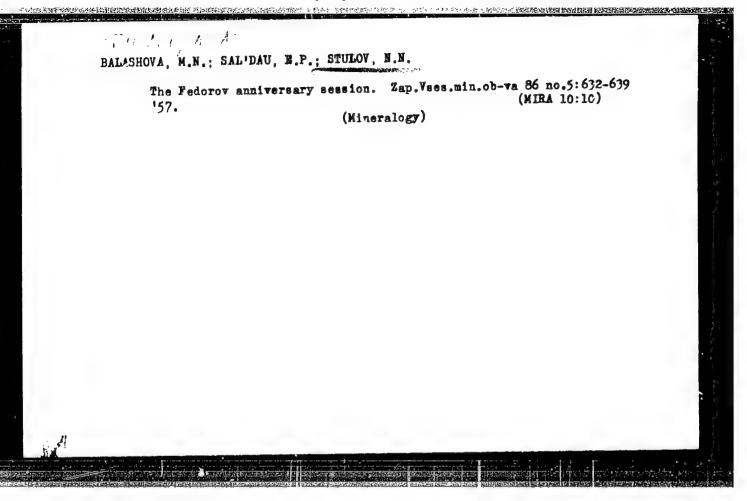
(Mikheev. Viktor Ivanovich, 1912-1956)

STULOV, N.N.; SHAFRANOVSKIY, I.I.

Achievements in Soviet crystallography. Zap.Vses.min.ob-va 86 (MIRA 10:10)

(Crystallography)

APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653710002-6"



SOV/70-3-5-23/24

Shafranovskiy, I.I., Stulov, N.N., Tatarskiy, V.B. AUTHORS:

and Frank-Kamenetskiy, V.A.

Certain Observations in Connection with the Article of TITLE:

Academician N.V. Belov "On a Course of Geometrical Crystallography for Physicists" (Neskol'ko zamechaniy

po povodu stat'i Akad. N.V. Belova "O kurse geometricheskoy

kristallografii dlya fizikov")

Kristallografiya, 1958, Vol 3, Nr 5, pp 637-638 (USSR) PERIODICAL:

Complaints by Leningrad mineralogists against the ABSTRACT:

excessive physical bias by Belov in his article. There are 4 references, 2 of which are Soviet and

2 German.

Leningradskiy gornyy institut. Leningradskiy ASSOCIATION:

gosudarstvennyy universitet.

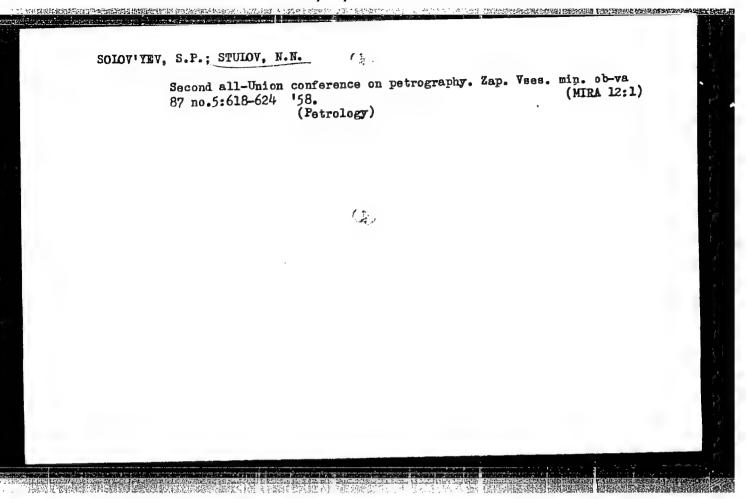
(Leningrad Mining Institute and Leningrad State

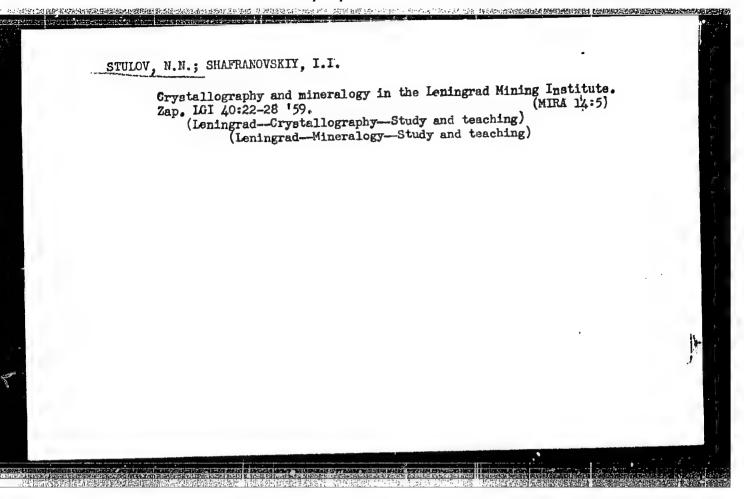
University)

SUBMITTED: May 23, 1958

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CIA-RDP86-00513R001653710002-6" APPROVED FOR RELEASE: 08/26/2000





SHAFRANOVSKIY, I.I.; MOKIYEVSKIY, V.A.; STULOV, N.N.

Discussion on the nomenclature of crystallographic forms at the French Mineralogical Society. Zap. Vses.min.ob-va 88 no.4:492-495 159.

(MIRA 12:11)

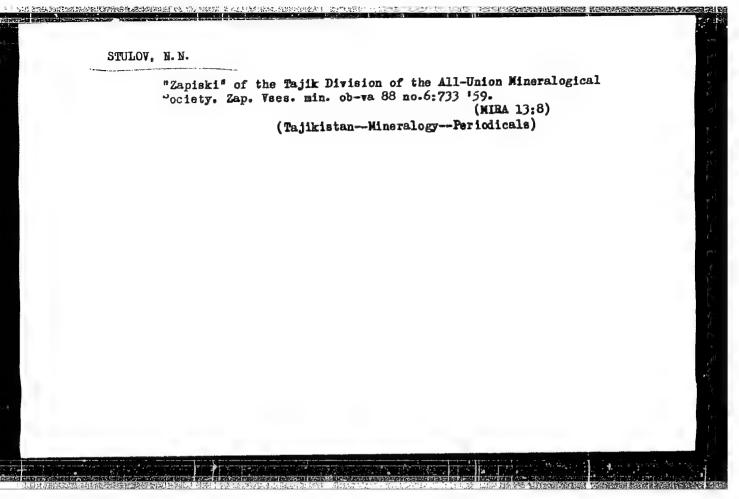
1. Deystvitel nyye chleny Vsesoyuznogo mineralogicheskogo obshchestva. (Crystallography--Terminology)

STULOV, N.N.; SHAFRAHOVSKIY, I.I.

New materials on the active life of E.S. Fedorov; on the 40th anniversary of his death, Zap. Vses. min. ob-va 88 no.5:578-582 (MIRA 13:2)

(Fedorov, Evgraf Stepanovich, 1853-1919)

(Crystallography)



AND SOME THE SECOND STREET STREET, SOME SOME STREET, SOME SOME STREET, SOME STREET,

SHAFRANOVSKIY, I.I., prof. Prinimeli uchastiye: MOKIYEVSKIY, V.A.; STULOV, N.N.; GENDELEV, S.Sh.; PIS'MENNYY, V.A.; HALASHOVA, M.N.; MIKHEYEVA, I.V.; SAL'DAU, E.P.; KALININ, A.I.; DOLIVO-DOBROVOL'SKAYA, G.M. PIOTROVSKIY, G.L., dotsent, otv.red.; FURMAN, K.P., red.; MALYAVKO, A.V., tekhred.

[Lectures on the morphology of mineral crystals] Lektsii po kristallomorfologii mineralov. L'vov. Izd-vo L'vovskogo univ., 1960. 161 p. (MIRA 14:1)

1. Kafedra kristallografii Leningradskogo gornogo instituta (for Mokiyevskiy, Stulov, Gendelev, Pis'mennyy, Balashova, Mikheyeva, Sal'dau, Kalinin, Dolivo-Dobrovol'skaya). (Minerals) (Crystals)

89338

3,1550(1057,1062,1129)

S/534/60/000/019/002/005 D226/D302

AUTHOR:

Stulov, N.N.

TITLE:

The roentgenometric study of the material composition

of certain meteorites

PERIODICAL: Akademiya nauk SSSR. Komitet po meteoritam.

Meteoritika, no. 19, 1960, 63-84

TEXT: This study was carried out in collaboration with Professor V.I. Mikheyev, and had two objectives in its first stage: a) to determine the mineral composition of certain meteorites from the collection at the Gornyy Muzey (Mountain Museum) and b) to investigate specially selected mineral parts of meteorites, forwarded to the laboratory by L.G. Kvasha from the Committee for Meteorites of the AS USSR. By undertaking these tasks the author aimed at improving the method of identification of minerals and at developing standard roentgenograms for them. In the last stage of

Card 1/12

The roentgenometric study of ...

S/534/60/000/019/002/005 D226/D302

this study the aim was to work out a series of tables recording X-ray crystallographic data for all minerals present in meteorites. Unfortunately the death of V.I. Mikheyev prevented realization of this project. The present article is an account of those roentgenometric studies which were actually conducted with the deceased. Method of investigation: Samples of iron meteorites from the Gornyy Muzey were taken by means of filing or drilling with a hard bore; samples given by L.G. Kvasha were already pulverized. Sometimes they were ground additionally to give particles, ranging from 0.01 - 0.001 mm. A column of the material was then pressed in a glass tube (diameter: 0.8 mm). Two X-ray photographs were taken of each sample, one of the pure material the second of its mixture with rock-salt. Distances between symmetric lines were measured with a 0.5 mm ruler (an average of 3 measurements were taken for every pair of lines). The intensity of lines was evaluated visually and photographs were taken with a camera 143 mm in diameter in a Haddings ionic tube with an iron anticathode.

Card 2/12

The roentgenometric study of ...

S/534/60/000/019/002/005 D226/D302

The following wave-lengths were used for calculations:

$$\lambda_{K_{\alpha_1}} = 1,936012kX; \quad \lambda_{K_{\alpha_2}} = 1,932076kX;$$

$$\lambda_{K_{\mathcal{B}}} = 1,753013 \text{ kX},$$

where kX = Kilo XU. Some modifications of X-ray photography were used: a) The films were placed in such positions that their ends did not point toward the incoming diaphragm, but in the reverse direction; in this way, lines formed by broad reflection angles were situated in the center of the film; b) Reflection angles were measured with a precision of up to 0.1'; c) the calculation of lattice distances were according to the Bragg-Wulf formula; d) Considerable quantities of rock-salt were added to the samples (up to 60%) to obtain more definite standard lines for the salt; these lines were used for correcting the obtained data. The time of exposure for iron-meteorite samples was 8 ma. x 4.5 hours.

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The roentgenometric study of ...

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X-ray photographs of other samples were made with a camera of 68 mm in diameter with an iron anticathode, the radiation wave lengths being as follows: $\lambda_{K_{cl}} = 1,934$ kX; $\lambda_{K\beta} = 1,753$ kX;

time of exposition 8 ma. x 2 hours, or 3.5 hours. I. Iron metecrites: The following minerals were found and submitted to X-ray study. Camasite and Tenite from Sikhote-Alinskiy, Coahuila, Hex River Mountains, Chestervill, Sao Juliao de Moreira, Carlton, Tazewell and Bodaybo meteorites. Hydrohetite and Hydrohematite from the melted surface layer of Tazewell meteorite. Chromite, Troilite, Schreibersite and Radbite from the Sikhote-Alinskiy meteorite. For the study of Camasite and Tenite, information given in the article of A. Bradley, A. Jay, A. Taylor (Ref. 13: "On the Lattice Spacing of Iron-Nickel Alloys", Philosophical Magazine and Journal of Science, 23, no. 155, 547-557, 1937) was used. V.I. Mikheyev (Ref. 9: Rentgenometricheskiy opredelitel'mineralov/Roentgenometric Determinant of Minerals/ Zap. Vsesoyuzn. Mineralog. obshchestva, part. 86, no. 2, 1957) investigating some iso-

Card 4/12

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The roentgenometric study of ...

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morphic series observed that the increase in dimensions of the unit cell is a linear function of the radius of present cations. He proposed the following equation for the dependence of the camasite lattice dimension on its content in nickel: a = 2.86124 + 0.00041 ∞ , where x equals the atomic percentage of Ni. For this equation Mikheyev used data from E.R. Jette and F. Foote (Ref. 14. "X-ray study of iron nickel alloys" Am. Inst. min. metallurg. Engin. Techn. Publ., no. 670, Metal Technology 3, 1, 14, 1936). The contents of Ni in Camasite calculated from Bradley's graph and those suggester by Mikheyev, do not agree, the figures according to Mikheyev being more than 20 % higher. These discrepancies may be explained by the fact that Bradley studied artificial iron nickel alloys, whereas Mikheyev dealt with natural minerals, in which -- apart from Fe and Ni -- some Co and Cu were also present, as was shown by M.U. D'zakonova, who carried out the entire chemical analysis of minerals from the Sikhote-Alinskiy meteorite. (Ref. 2: Khimicheskiy sostav

Card 5/12

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The roentgenometric study of ...

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Sikhote-Alinskogo meteorita /Chemical Composition of the Sikhote-Alinskiy Meteorite/ Meteoritika, 16.1958). Chemical data for all further mentioned minerals were taken by the author from this study. Tenite was not found in the Sikhote-Alinskiy meteorite, but was present in the Chestervill, Sao Juliao, Carlton, Tazewell and Bodaybo meteorites. To identify it, data from Mikheyev's tables were used (Ref. 8: Rentgenomentricheskiy opredelitel' mineralov /Roentgenometric Determinant of Minerals/ Gosgeolizdat 1957). Finally, the author expresses the opinion that at present it is impossible to quantitatively determine in any precise manner the components of iron nickel meteorites by unit cell dimensions, although it has been found that: a) when the unit cells of Camasite are small, those of Tenite are large; their dimensions can be much larger than those of artificial alloys; b) with the increase in Tenite content, the lattice spacing of Camasite increases and that of Tenite decreases. However, the author adds that these conclusions are not certain in view of the small num-

Card 6/12

S/534/60/000/019/002/005 D226/D302

The roentgenometric study of ...

ber of specimens studied. Therefore further studies are necessary. A sample from the melted surface layer of the Tazewell meteorite gave 50 lines on the X-ray film. 22 of these correspond to Hydrotite, 13 to Hydrohematite, 6 to Camasite, 5 to Tenite, 10 weak lines were not identified. The lattice spacing of Camasite and lenite in the sample was the same as in the bulk of the meteorite. All other minerals mentioned belong to the Sikhote-Alinskiy meteorite: 1) Chromite, having the chemical composition (weights given in percentage): FeO-15.91 %; Cr_2O_3 -71.23 %; MgO-11.87 %; (Total 99.01 %). The roentgenogram showed that there was in this sample Chromite with a lattice constant: $a = 8.329 \pm 0.001$ kilo XU and Chromite, with the formula $3\text{Cr}_2\text{O}_3$ * Fe_2O_3 , the formula of the first Chromite being (Mg,Fe)Cr $_2\text{O}_3$ in accordance with Mikheyev's study on spinels, (Ref. 9: op.cit.). A mineral with a formula $3\text{Cr}_2\text{O}_3$ * Fe_2O_3 has never been found before either on

Card 7/12

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The roentgenometric study of ...

earth or in meteorites. Its identification was made on the basis of data in the first supplement to the American roentgenometric card-file These data are based on work of P.F. Wretblad, who studied a synthetic substance having the above composition. (Ref. 15: Z. f. Anorg. Chem., 189, 331, 1930). 2) Troilite, having the following chemical compositions for 3 different samples (weights given in percentage): Fe-60.78 %; Cu-0.04 %; S-36.41 %; Cr-2.08 %, (Total 99.31 %); Fe-62.46 %; Cu-0.05 %; S-34.65 %; Cr-1.06 %, (Total 98.22 %); Fe-62.84 %; Cu-0.07 %; S-34.33 %; Cr-1.08 %, (Total 98.32 %). X-ray study proved the presence of 2 compounds. one a pure Troilite, the other a mixture of Troilite plus some Chromite, with lattice distances: a = 8.344 ± 0.004 kilo XU, which corresponds to the formula FeCr₂O₄. The lattice constants of pure Troilite were: a = 5.965 kilo XU and c = 11.538 kilo XU.

3) Schreibersite was found in another sample of the same meteorite. Its composition is (weights given in percentage): Fe-69.73 %; Ni-14.64 %; Co-0.18 %; P-15.64 %, (Total

Card 8/12

S/534/60/000/019/002/005 D226/D302

The roentgenometric study of ...

100.19 %). Cristallographic data for its identification were taken from a work of A.G. Betekhtin (Ref. 1: Mineralogiya / Mineralogy/ Gosgeolizdat, 1950), its lattice constants being:

a = 9.065 ± 0.002 kilo XU and c = 4.444 kilo XU. The last minear identified from the same meteorite was 4) Radbite, which belongs to the same isomorphic mineral series as Schreibersite. Its Ni and P contents are smaller than those of Schreibersite, Its Ni and P contents are smaller than those of Schreibersite, being 29.8 % and 15.2 % (weights given in percentage) respectively. The lattice constants of Radbite were determined as:

a = 9.022 ± 0.004 kilo XU and c = 4.424 kilo XU. 5) Carbonaceous Chondrites were studied from samples of the meteorites cous Chondrites were studied from samples of the meteorites in mineral was found in all three meteorites and has the same lattice dimensions as the mineral found in the meteorite Migei, described in the work of V.I. Mikheyev and A.I. Kalinin. (Ref. 10: Primeneniye rentgenometricheskogo metoda k issledovaniyu veshchestvennogo sostava meteoritov / Use of the Roentgenometric

Card 9/12

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The roentgenometric study of ...

Method for Investigating the Material Composition of Meteorites/
Meteoritka, no. 15, 1957), It was impossible to determine its
chemical composition, but in the opinion of Mikheyev (Ref. 10:
op.cit.) this mineral is nearest to serpentine of the antigorite
type and contains a fair amount of bivalent iron (Abstractor's
Note: Lattice constants not given). The carbonaceous matter in
these meteorites is apparently amorphous. In the last part of
the article the author discusses the presence of hydrosilicates
in meteorites. He quotes Mikheyev's opinion that these silicates
are formed from olivine, not by action of water, but by the action of carbon oxide and methane, and suggests the following
reaction:

reaction: $3 \text{ Mg}_2 \text{SiO}_4 + \text{Fe"}_2 \text{SiO}_4$ + 2CO + 2CH₄ = Mg₆(Si₄O_{1O})/ δH_8 + Olivine Coalgas Methane Serpentine

 $^{+}$ 4C $^{+}$ 2Fe $_{\circ}$ If the ratio of components were different certain minerals could

Card 10/12

S/534/60/000/019/002/005 D226/D302

The roentgenometric study of ...

be formed instead of metallic iron such as magnetite. It follows from this reaction schemati, that the ratio of water: carbon in carbonaceous meteorites should be definite: There, in fact, must be 4 molecules of H₂O for every 4 atoms of carbon; the ratio of corresponding weights being $4 \times 18 : 4 \times 12 = 72 : 48 = 1.5$. G. Boato found that the actual ratios of water and carbon in carbonaceous meteorites were in the range: 1.13 - 2.0, i.e. an average of 1.42 (Ref. 12: "The Isotopic Composition of Hydrogen and Carbon in the Carbonaceous Chondrites", Geochim. et Cosmochim. acta, 6, 209-220, 1954). These data give support to Mikheyev's opinion. The author suggests that the above described reaction should be performed on a laboratory scale -- this, says the author, should not present any technical problems -- and the reaction products be carefully examined. In conclusion the author emphasises the need to work out roentgenometric-crystallographic data tables for minerals. Such tables are of great importance for the study of meteorites in view of the minute quantities of ma-

Card 11/12

The roentgenometric study of ...

S/534/60/000/019/002/005 D226/D302

terial with which the investigator very often has to deal. Laboratory technician A.I. Kalinin also participated in the work described above. There are 2 figures, 13 tables and 16 references: 11 Soviet-bloc and 5 non-Soviet-bloc. The references to the English-language publications read as follows: A. Bradley, A. Jay, A. Taylor. "On the Lattice Spacing of Iron-Nickel Alloys", Philosophical Magazine and Journal of Science, 23, no. 155, 547-557, 1937; E.R. Jette, F. Foote, "X-ray Study of Iron Nickel Alloys, Am. Inst. min. metallurg. Engin. Techn. Publ., no. 670, Metal. Technology 3, 1, 14, 1936; X. R.D.C. II Am. Soc. of Testing Materials. First supplementary Card File of X-ray diffraction Data, 1945.

Card 12/12

STULOV, N.N.

Relationship between the crystalline texture, temperature, and heat of fusion of simple solids. Zap. Vses.min.ob-va 89 no.2: 143-151 '60. (MIRA 13:7)

1. Deystvitel'nyy chlen Vsesoyuznogo mineralogicheskogo obshchestva. Kafedra kristallografii Leningradskogo gornogo, instituta.

(Metal crystals -- Thermal properties)

SHAFRANOVSKIY, I.I.; STULOV, N.N.; MOKIYEVSKIY, V.A.

In memory of Viktor Ivanovich Mikheev. Zap. LGI 38:3-8 '61.
(MIRA 15:1)
(Mikheev, Viktor Ivanovich, 1912-1956)
(Bibliography--Mikheev, Viktor Ivanovich, 1912-1956)

STULOV, N.N.

Review of the unpublished scientific works of V.I.Mikheev. Zap.
LCI 38 no.2:9-25 *61. (MIRA 15:1)
(Mikheev, Viktor Ivanovich, 1912-1956)
(Bibliography--Mikeev, Viktor Ivanovich, 1912-1956)

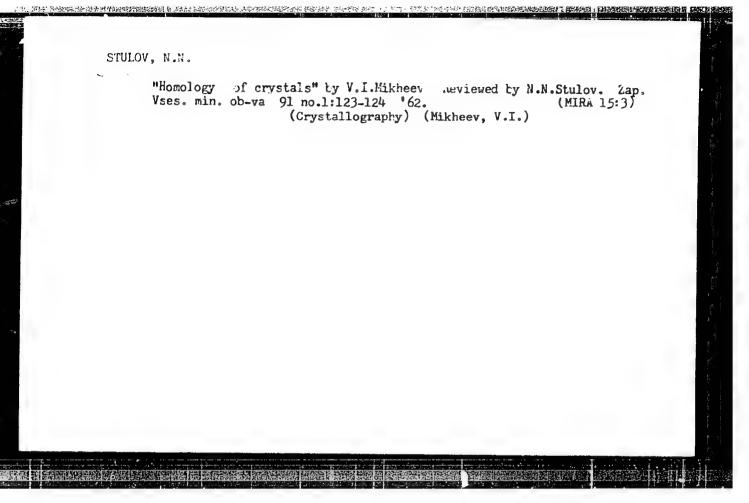
ALYAVDIN, V.F.; VASII'YEVA, L.F.; VITOSHINSKAYA, M.I.; GRIGOR'YEVA, L.N.;

GODLEVSKIY, M.N.: ZHERBINA, K.M.; ZHEZEZKOVA, V.H.; KISELEVA, A.N.;

KOZYREVA, Yu.A.; EULIKOV, K.V.; PAFFENGOL'TS, K.N.; POLEVOY, B.F.;

SOIOV'YEV, S.P.; STULOY, H.H.; SHAFRANOVSKIY, I.I.

In memory of A.V.Nemilovoi. Zap.Vses.min.ob-va 90 no.6:756-757 (MIRA 15:2)
'61. (Nemilova, Aleksandra Vasil'evna, 1892-1961)



STULOV, N.N.; SHAFRANOVSKIY, I.I.

V.I. Vernadskii on the symmetry of nature. Zap. Vses. min. ob-va 92 no.5:579-586 163. (MIRA 17:1)

APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653710002-6"

STULOV, N.N.

Correlation of the heat capacity and the heat of fusion in elements. Zap.Vses.min.ob-va 93 no. 2:121-125 '64. (MIRA 17:6)

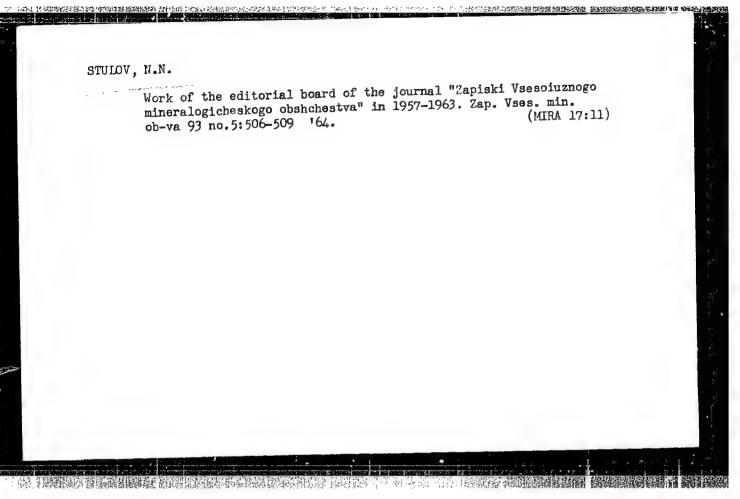
l. Kafedra kristallografii Leningradskogo gornogo instituta, problemnaya laboratoriya.

TATARINOV, P.M.; M.ROZERKO, N.K.; SOLCVIYTY, S.P.; STULOV, N.N.;
RUHEXYIST, D.V.

Grigorii Sergeevich Labazi, 1898-1953; an obiturary.
Zap. Vses.min. ob-va 93 no. 2:245-246 '64. (MIRA 17:6)

Form of atomic spheres and their closest packing in crystal structures. Tap. Vses. min. ob-va 93 no.3:260-265 '64. (MTA 18:3)

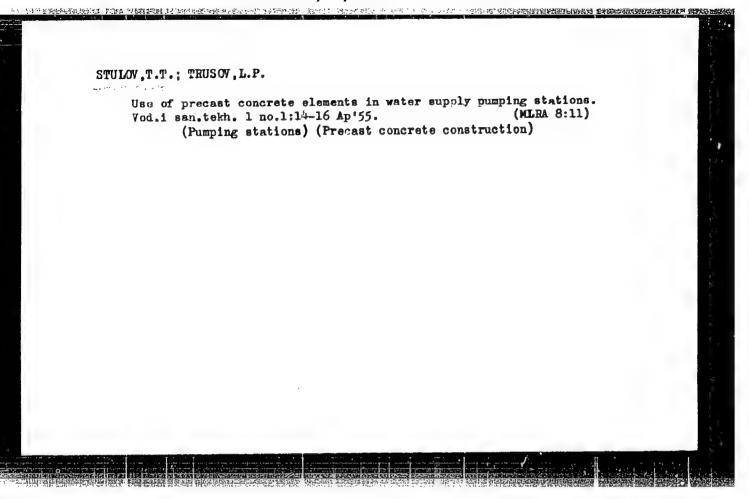
1. Leningradskiy gornyy institut, kafedra kristallografii. Froblemnaya laboratoriya.



OHAPPANOVEKIY, I.1.: 30HOW YEV, S.P.; STHLOV, N.N.

100th anniversary of the Department of Geology of the Franko Lvov
University. Zap. Vses. win. cb-va 93 no. 6:735-736 '64.

(MIRA 18:4)



BALASHOV, A.I., STULOV, T.T. (Moskva)

Water cleaning installation for oil field flooding. Stroi.pred.neft.
prom. 1 no.9:6-10 N '56. (MERA 10:1)

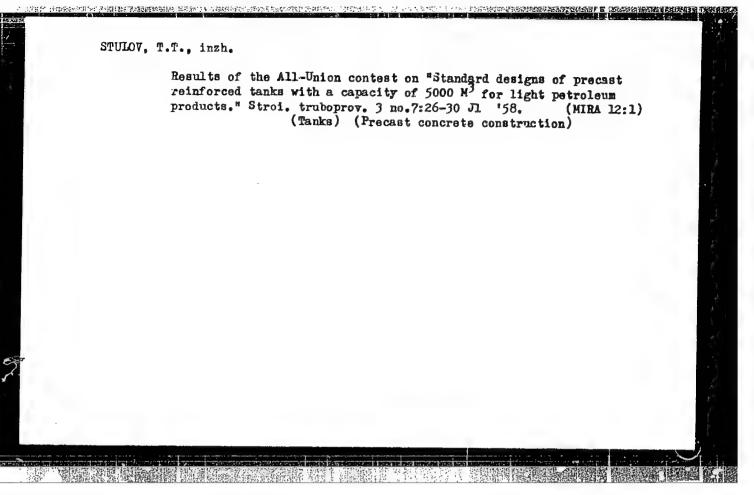
1. Zamestitel' glavnogo inzhenera Giprospetsnefti (for Balashov).
2.Glavnyy konstruktor Giprospetsnefti (for Stulov)
(Oll field flooding) (Water--Furification)

STULOY. T.T., inchemer.

Underground reinforced concrete sterage tanks for petroleum products.

Stroi. pred. meft. prom. 2 no.2:1-5 7 '57. (MIRA 10:4)

(Petroleum-Sterage) (Reinforced concrete construction)



sov/95-59-6-5/12

14(10)

Stulov, T.T. and Trusov, L.P., Engineers

AUTHORS:

New Designs of Underground Small Capacity Reinforged Concrete Reservoirs

TITLE:

for Oil Products

PERIODICAL:

Stroitel'stvo truboprovodov, 1959, Nr 6, pp 15 - 17 (USSR)

ABSTRACT:

The Institute Giprospetspromstroy has worked out standard designs for typical reinforced concrete reservoirs of 100 and 200 ou m capacity. Reservoirs (arch Nr T-1164 and T-1165) for light oil products and lubricants consist of a metal lining and gunite wall. The article describes and illustrates this simple design and inexpensive construction. After the metal lining is put in place and welded to the base plate to form a reservoir, it is filled with water and covered on the outside with gunite; the necessary equipment is mounted on 4 manhole metal covers. The gunite wall thickness is 6 cm for the 100 cu m reservoir and 8 cm for the 200 cu m reservoir. - Designs for reservoirs (arch Nr T-1160 and T-1161) for dark oil products provide for prestressed concrete reinforcement. The novelty of this method consists in the tight winding under stress of the wire round the cone-shaped surface of the reservoir. The wire does not touch the reservoir itself but passes over

Card 1/2

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STULOV, T.T.

Using precast concrete in water supply and severage structures.

Vcd. i san. tekh. no.8:10-16 Ag '61. (MIRA 14:9)

(Sanitary engineering)

(Precast concrete construction)

STULOV, T.T.

Determining the bending moment in the supporting section of a wall of precast reinforced concrete cylindrical storage vessels.

Izv. vys. ucheb. zav.; neft' i gaz. 7 no.10:105-111 '64.

(MIRA 18:2)

1. Moskovskiy institut neftekhimicheskoy i gazovoy promyshlennosti im. akad. I.M. Gubkina.

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AUTHOR: Stulov, V. A. 65				1
TITLE: Frequency-type supervisory-con	trol systems			1
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TRANSLATION. The noise-issume codes u	sed in the frequen	cv-type telesyste	mu ara	
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الله الله الله الله الله المحمد الله الله الله الله الله الله الله الل				
encoder and decoder are described for				74
the 2-packet 3-frequency code. The mo				SERVE -
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oumbination and, hence, outdoor less and the series of the	station code. It can detect a nuclear be used in the high-noise on late alternation-gravity order a	amels. A decoder for the real section	iis
characterize the telecont	trol-equipment capacity depending	g on the code type and the	ine .
	the packet. The alternating-packet has been different more been been been been been been been be		- 4 -
number of frequencies in			- 5-

STULOV, V.A., inzh.

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Static interference rejection of changeable transmission group codes. Izv. vys. ucheb. zav.; energ. 7 no.2:23-30 F 164. (MIRA 17:3)

1. Kiyevskiy ordena Lenina politekhnicheskiy institut. Predstavlena kafed**rey** avtomatiki i telemekhaniki.

29213

S/102/61/000/005/005/005 D274/D302

9.7500 (1024)

Skyrta, B.K., and Stulov, V.A. (Kyyiv)

TITLE:

AUTHORS:

Sequential magnetic decoder

PERIODICAL: Avtomatyka, no. 5, 1961, 73 - 76

TEXT: A decoder incorporating magnetic elements with a rectangular hysteresis-loop is described. It is destined for contactless frequency systems in remote control. The decoder operates on a two-code signal, having two frequencies which follow each other in time. The advantage of such a decoder over other ferrite-diode decoders consists in that it no longer requires a special switching element for signal reception. The decoder incorporates toroidal ferrite cores. A block diagram of the decoder is shown. Each core has 5 windings. Winding 1 serves for remagnetizing the core from state 0 to 1; winding 2 serves for counting, it changes the core from 1 to 0; counting takes place only when the core is remagnetized from 1 to 0, by means of diodes in the circuits of windings 4 and 5; windings 4 and 5 are output windings which connect the in-

29213 S/102/61/000/005/005/005 D274/D302

Sequential magnetic decoder

dividual triggers of the controlled object. The frequency pulse arrives at the filter inputs and after filtering and rectifying — at the input of the Schmitt trigger (limiter); thereupon, the pulse is amplified and applied to the magnetic decoder. The key tricdes KO and KC are controlled by a univibrator which operates on transmission of the first code (indicating the character of the operation). Thereupon, one of the keys (KC) is opened, and the other (KO) — closed. The first code arrives at the corresponding terminal of the decoder input. The following signal is applied to the second input-terminal (after passing through the key-amplifier) The cores of windings 2 (which are placed horizontally) are connected in series with the windings 1 of the cores which are remagnetized. Assume the pulse is applied to the fifth terminal; then the vertical series of cores (of winding 1) which correspond to that terminal, are remagnetized from 0 to 1; the horizontal series we does not change its state with the exception of core 4 which changes from 1 to 0; thereby, a pulse is applied from its windings 4 and 5 to the corresponding control trigger. After the informa-

Card 2/3

29213

S/102/61/000/005/005/005 D274/D302

Sequential magnetic decoder

tion, contained in the code, has been received, conversion takes place by means of the conversion winding 3 with which every core is equipped. After the conversion, the decoder re-assumes its initial position, i.e .state 0 in every core. There are 3 figures.

SUBMITTED: March20, 1961

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Card 3/3

KATKOV, F.A., kand.tekhn.nauk; STULOV V.A., inzh.

Alternate-message frequency code and its realization.

Izv. vys. ucheb. zav.; energ. 5 no.10:22-32 0 '62.

(MTRA 15:11)

1. Kiyevskiy ordena Lenina politekhnicheskiy institut.

Predstavlena kafedroy avtomatiki i telemekhaniki.

(Remote control)

(Telecommunication)

SMIDOVICH, V.A., inzh.; ZHAK, V.Z., inzh.; SKIRTA, B.K., inzh.; STULOV, V.A., inzh.

Experience in operating a frequency remote control system and a signaling system. Elek.sta. 33 no.2: 72-75 F '62. (MIRA 15:3) (Telemetering) (Remote control)

KATKOV, Fedor Aleksandrovich, kand. tekhn. nauk. Prinimali uchastiye: STULOV, V.A., inzh.; POPOV, A.B., inzh.; DIDYK, B.S., inzh.; SHESTOPALOV, V.N., kand. tekhn. nauk, retsenzent; PISARENKO, M.G., inzh., red.izd-va; STARODUB, T.A., tekhn. red.

[Teoretical principles of remote control] Teleupravlenie; osnovy teorii. Kiev, Gostekhizdat USSR, 1963. 231 p. (MIRA 16:11)

(Remote control)

STULOV, V.A. (Kiyev)

Concerning some definitions and classifications of codes.
Avtomatyka 8 no.1163-66 .33.
(Information theory) (Automatic control)

"APPROVED FOR RELEASE: 08/26/2000 CIA-

CIA-RDP86-00513R001653710002-6

L 1051-66 EWT(d)

ACCESSION NR: AR5006541

S/0274/64/000/012/A015/A015

621.391.15

SOURCE: Ref. zh. Radiotekhnika i elektrosvyazi. Sv. t., Abs. 12A75

AUTHOR: Stuloy, V. A.

TITLE: Code-combination structure

CITED SOURCE: Tr. Kiyevsk. politekh. in-ta, v. 42, 1963, 78-85

TOPIC TAGS: code, code combination, code structure

TRANSLATION: Definitions are offered for several concepts characterizing the structure of the code combinations that constitute a code. Each combination comprises one- or multi-element sendings whose number and sequence are determined by the code algorithm (the elements are transmitted simultaneously). The code element is a distinct elementary portion of the sending; the element is active if it carries usable information (which was in the message before its transmission); the element is passive if it carries ancillary information (which is added to the usable information for service purposes). The sendings are active if all

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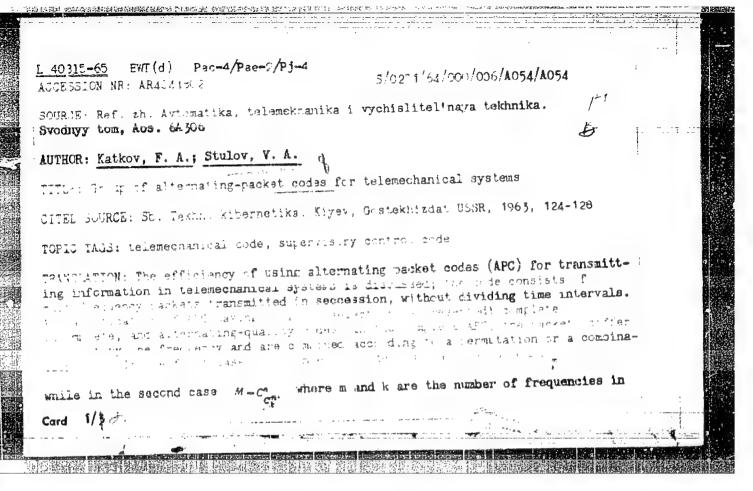
ACCESSION NR: AR5006541

their elements are active; mixed, if only a portion of the elements is active; passive, if all their elements are passive. In a code combination, the sendings form rows sequentially and according to one system of time components. The number of used systems determines the number of rows. The total duration of sequential sendings in a row determines its order. The first-order row has a maximum duration and a higher (for equal duration) number of sendings. In the general case, the code combination may be represented, in Cartesian coordinates, by a three-dimensional quantity because it is characterized by its position in time, the number of sendings, and the number of elements in a sending; the corresponding averaged numerical characteristics can be easily computed from the code algorithm and the number of combinations in the code. Sometimes the code combination can be adequately presented in a two-dimensional or single-dimensional space. In this sense, many codes in use are single-dimensional. Bibliography: 5 titles.

SUB CODE: DP

ENCL: 00

Card 2/2 8



"APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653710002-6

L 40315-65 ACCESSION NR: AR4044802 the packet and code, respectively; n is the number of packets in the code combination (CC). In the incomplete APC where the adjacent packets have no idential frequencies, the number of CC is permutations and combinations will be: restact value atere P is the number of remultations of the constituent elements in the second and subsequent packets. in the gitermation publicy rode where the packets comprise the same frequencies, The number of CC in the complete apply hading a group selection can be estimated from this formula. M = M, M, ..., M, where M, M, ..., M, is the number of combinations in the first, second, and inth groups. Modifications of APC with group selection are analyzed, and formulas for estimating the number of CC are given. Thus, for example, the number of (C in an APC with group selection, when any group is composed only of those possible packets which are not used in other groups, is equal , under the condition that $C_{\nu}^{(m)}$ is exactly divisible by i. The number of CC, when the groups can be selected by the frequencies sent simultaunder the condition that k can be exactly Card 2/3

L 20017-65 ENT(d)/ELD-2/FS(b) Pac-4/Pae-2/Pj-4 AFETR/ESD(dp) ACCESSION NR: AR4044801 S/0271/64/000/006/A053/A054

SCURCE: Ref. zn. Avicmatika, telemoklimika i vyšchislitelinaya tekhnika. Svodnyšy

tom, Abs. uA 305

AUTHOR: Stulov, V. A.

TITL: Some alternating quality code; used in telemechanical systems of

CITED SOURCE: Sb. Tekhn. kibernetika. Kiyev, Gostekhizda USSR, 1963, 128-133

TOPIC TAGS: telemechanics, code

TRANSLATION: Alternating quality codes (AQC) can be used in telemechanical systems as error-detection codes, the frequency being used as quality. A simple AQC can detect, in a code combination, the presence of an adjacent frequency instead of the correct frequency. An arrangement-type AQC permits detecting the wrong frequency from the same code combination. A permutative AQC permits detecting, in a code combination, any wrong frequency which corresponds to a jouble detection. Relative afficiencies is the active codes are estimated, the efficiency being a ratio of the number of code a mountainers in a given a decrease their number in a base code

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ACCESSION NR: AR4044801		No.	
that has the same number of i	frequencies, packets, and fre f the cumber of frequencies	quencies per packet in and packets upon the	
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	SUB CODE: EC	ENCL: 00	

L 3278-66 EVT(d)/FSS-2

ACCESSION NR: AR5014345

UR/0271/65/000/005/A016/A016

621.398.001:621.391.13

SOURCE: Ref. zh. Avtomatika, telemekhanika i vychislitel'naya tekhnika.

Svodnyy tom, Abs. 5A111

AUTHOR: Stuloy, V. A.

TITLE: Principles of selection

CITED SOURCE: Sb. Ustroystva i elementy prom. telemekhan. Kiyev, 1964, 5-11

TOPIC TAGS: signal transmission 4 44

TRANSLATION: It is suggested that all principles of selection (PS) be reduced to these four categories: quality, division, distribution, and combination. With the quality principle, the signal division depends on various values of the parameters of the information carrier. The signal consists of a single-element packet and liffers from other signals qualitatively or quantitatively. Simultaneous transmission of several values of the same signal indicant is excluded. The signal indicant means a qualitative indicant of the information carrier and also presence

Card 1/2

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CIA-RDP86-00513R001653710002-6

L 6434-66 EWT(d)/EWP(v)/EWP(k)/EWP(h)/EWP(l)

ACC NR: AR5014352 SOURCE CODE: UR/0271/65/000/005/A045/A043

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SOURCE: Ref. zh. Avtomatika, telemekhanika i vychislitel'naya tekhnika. Svodnyy tom, Abs. 5A303

AUTHOR: Skirta, B. K.; Stulov, V. A.

TITLE: Frequency selectors used in remote-control systems |

CITED SOURCE: Sb. Ustroystva i elementy prom. telemekhan. Kiyev, 1964, 63-68

TOPIC TAGS: frequency selector, telemetering, remote control system

TRANSLATION: Selectors are described which consist of parallel or series resonance circuits, electromechanical 1- and 2-reed vibrators, synchronous filter generators, and LC differential filters whose operation depends on parametric resonance. One-and 2-reed vibrators have passbands of 1 and 3%. A reed vibrator combined with a transistor is used as a generator. The synchronous filter generators and differential filters are the most economical devices among all selectors used in remote-control systems. The first operates on the principle of synchronous reception. They include a semiconductor LC-oscillator, a comparison circuit, and a Schmidt trigger. The on-off operating transistor acts as a controlled conductance. The

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UDC: 621.398.626

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L 6434-66 ACC NR: AR5014352		<u> </u>	
	nerator is used as a filter or as a signal when the frequency of an arrive frequency of the local oscillator	AGO ASAS COTTIGITOS MILA	, ,
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EWT(1)/EWA(h) L 3334-66

ACCESSION NR: AR5014344

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621.398.3:621.391.15

SOURCE: Ref. zh. Avtomatika, telemekhanika i vychislitel naya tekhnika.

Svodnyy tom, Abs. 5A109

AUTHOR: Stulov, V. A.

TITLE: Noise-duration and noise-amplitude analyzer

CITED SOURCE: Sb. Ustroystva i elementy prom. telemekhan. Kiyev, 1964,

114-116

TOPIC TAGS: noise analyzer, noise analysis

TRANSLATION: The noise immunity of a code can hardly be evaluated without knowing the duration and amplitude distribution of noise. A noise analyzer consisting of threshold devices, exponential selectors (ES), coincidence circuits, inverters, and counters is proposed for determining noise having various amplitudes and durations. For simplicity's sake, an analyzer with two amplitude levels and three duration levels is described. The noise signals pass the

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(1) 新社员会的证明	where they are subd the coincidence circ counters which coun threshold devices co diodes with different connected to the ES pass level of the fin-	a5014344 ere they are segregated ivided according to the uit, and after that— t the noise signals of onsisting of semicondute thresholds. Unlike outputs. Chly those pal threshold device) e By selecting a definitionalyzer can be constituted.	via suitable in specified leve actor inverter conventional coulses pass Eixceeds the delegant of the convention of the c	then they are a verters — they and durations have, at their circuits, invertes whose duration lay time set for hreshold devices	go to the s. The entrance, rs are a (at the the	
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L 3h975-66 SOURCE CODE: UR/0271/65/000/011/A022/A022 ACC NR. AR6014184 36 AUTHOR: Stulov, V. A. alternating-packet codes TITLE: Formation of channel components with SOURCE: Ref. zh. Avtomatika, telemekhanika i vychislitel'naya tekhnika, Abs. 11A15! REF SOURCE: Vestr. Kiyevsk. politekhn. in-ta. Ser. avtomatiki, elektropriborostr. i radioelektron., no. 1, 1964, 42-44 TOPIC TAGS: telemetry, telemetry system ABSTRACT: Sequential components in the alternating-packet codes are time formed, usually, by alternating the frequency packets or by changing the code elements that have various values of the same or different parameter of the elementary signal. The sequential components of a channel can be formed, too, by changing the V10 elementary sinusoidal signals differing in their amplitudes or phases. The sequential components of a channel can be time formed by changing the values of one or several signal characteristics. Five figures. Bibliography of 1 title. V. M. [Translation of abstract] SUB CODE: UDC: 621.398.3:621.391.15

"APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653710002-6

ACC NR: AT6022308

SOURCE CODE: UR/0000/66/000/000/0053/0056

AUTHOR: Stulov, V. A.

ORG: none

TITLE: Combinatorial properties of codes in remote control

SOURCE: Vsesoyuznaya nauchnaya sessiya, posvyashchennaya Dnyu radio. 22d, 1966. Sektsiya telemekhaniki. Doklady. Moscow, 1966, 53-56

TOPIC TAGS: coding, coding evaluation, combinatorial analysis, signal coding, remote control

ABSTRACT: In the limiting case a code combination may consist of a single unit. The minimum number of code elements in the latter is one. If the code consists of such combinations only, then its capacity is equal to the number of different code elements. Each code element possesses d attributes which may assume g values. In the case considered, code combinations are obtained by combining the values of attributes. Consequently, in the limiting case, the values of attributes and not the code elements are taken into a code combination. The number of values of the attributes serves as the code base, because various code combinations are obtained when they are combined. A code combination may consist of a single multi-clement unit. In this case several code elements are transmitted simultaneously. Alphabets for all parallel components can be both identical and different. In the case considered, the code has a common alphabet

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3/179/61/000/003/001/016 E031/E435

AUTHOR:

Stuler, V.P. (Moscow)

TITLE :

The boundary layer on a flat plate taking account of

canalance due to rate of dissociation

PERIODICAL Akademiya nauk SSSR. Izvestiya. Otdeleniye tekhnicheskikh nauk. Mekhanika i mashinostroyeniye, 1961, No.3, pp.5-12

TEXT The equations for a laminar boundary layer on a flat plate in the call of a rearting binary mixture are successively imensformed by the Introduction of Dorodnitz and Blasius variables and then min-dimensional variables. constant of recombination is assumed constant. boundary conditions are considered, the first corresponding to the walls being hemically and thermally isolated and the second to the tase where the receiving wall has a given constant temperature and the concentration of stems on the wall is also constant. problems lead to a complicated system of non linear partial differential equations which can be simplified by assuming that everywhere in the flow the characteristic time of the chemical reading as smould by ampartson with the characteristic time of the flow and that the temperature gradients are not greater than of

the contents of m has no effect on the heat flow.

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order unity. Approximate solutions can then be derived by considering amount policy contions. Considering the first problem, it is found that the relatity profile is given by the well-known Blasing function and the concentration is determined by the enths py profile the zero order approximation). first order approximation the imbalance has no effect on the In the enchalpy discount car. The distribution curve for the deviation of the lines of them its equilibrium value is a hyperbola for The temperature of the wall at the nose corresponds longreat gran to the temperature of the gas partitles of the incident flow slowed Wathout here I on enception. The temperature falls downstream of the name of a value . Erresponding to that of the slowed particles with applicability on concentration. The temperature of a gas pastoles are the walks corresponding to equilibrium dissinguishing it he slowing down of the dissociation a smaller part of the translation energy of the molecule is conversed in the head at resection. The second problem is dealt with very brigging. In the first approximation the perturbation in

10.3000

S/179/61/000/006/002/011 E032/E514

26.5000

AUTHOR: Stulov, V.P. (Moscow)

相談問題問題會開發的過程的影響問題 医脓肿 非正性经验的原理 1000 万美国的第三人称形式

TITLE

Heat transfer in the laminar boundary layer on a plate with allowance for the absence of chemical equilibrium

PERIODICAL: Akademiya nauk SSSR. Izvestiya Otdeleniye tekhnicheskikh nauk. Mekhanika i mashinostroyeniye, no.6, 1901, 11-14

TEXT: This paper is a continuation of previous work reported by the author in Ref.1 (Izv.AN SSSR OTN Mekhanika i mashinostroyeniye, 1961, No.3). The heat transfer to the wall in the boundary layer of a reacting atomic-molecular mixture depends on the change in the viscosity-density product, the Prandtl number and the Lewis number across the boundary layer. The author derives approximate formulae which may be used to calculate the effect of changes in the physical parameters on the heat flow on the assumption that the changes are small in the boundary layer. The calculation takes into account binary diffusion and is applied to the special case of oxygen and nitrogen. It is shown that the calculations are in good agreement with experimental results over

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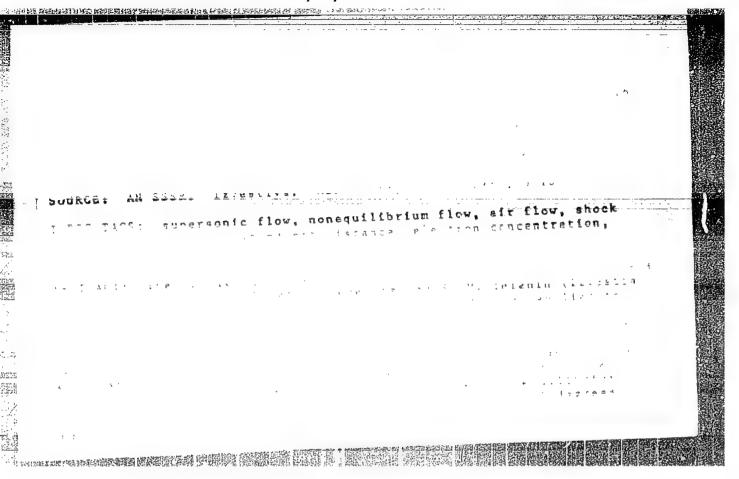
Stulov, V.P. (Moscow) The flow round a convex angle of an ideal dissociationg AUTHOR:

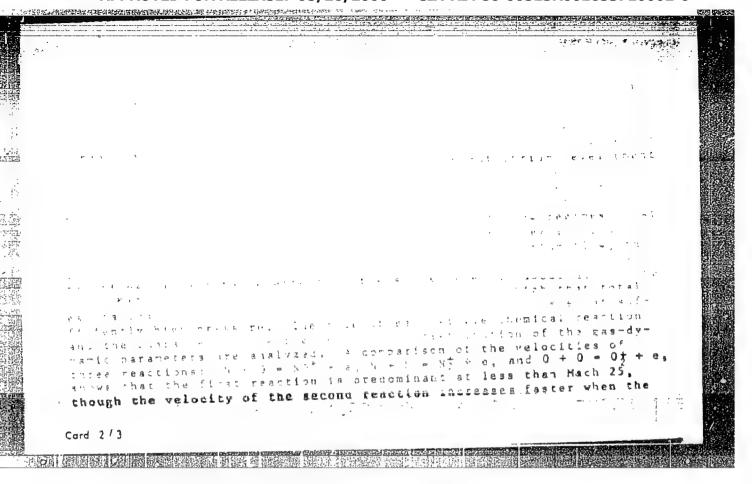
gas taking account of disequilibrium TITLE:

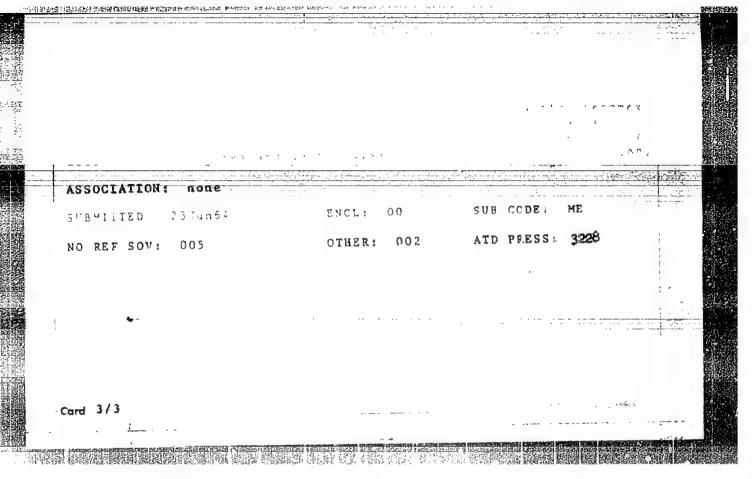
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The flow round an angle nearly equal to 180° of an ideal dissociating gas was studied by Clarke (J. Fluid Mech., 1960, v.7, p. 4). In this paper an approximate solution is given for the problem for an arbitrary angle and the change in the discontinuity of the normal derivatives of the gas-dynamic variables along the characteristic separating the uniform incident flow from the expansion fan is studied. Disequilibrium occurs because of the finite velocity with which energy is transmitted by the inert degrees of freedom of atoms and molecules. The characteristic time of flow can become equal to the characteristic time to establish equilibrium. The system of equations of motion of an inviscid gas must be supplemented by the equations describing the Card 1/2







ENT(d)/ENT(1)/ENP(m)/ENT(m)/ENP(w)/ENP(k) IJP(c) WW/EM 34531 SOURCE CODE: UR/0421/66/000/005/0003/0007 L 08066-67 ACC NR: AP6034531 Stulov, V. P. (Moscow); Turchak, L. I. (Moscow) ORG: Institute of Mechanics, Moscow State University (Institut TITLE: Supersonic air flow past a sphere with vibrational relaxation mekhaniki MGU) SOURCE: AN SSSR. Izvestiya. Mekhanika zhidkosti i gaza, no. 5, 1966, taken into account TOPIC TAGS: supersonic aerodynamics, supersonic flow, shock wave, vibration relaxation, relaxation process, stagnation point, degree of ABSTRACT: A numerical solution of the problem of supersonic air flow over a sphere when there is nonequilibrium excitation of vibrational degrees of freedom of the molecular components is obtained by the method used in a previous work (Izvestiya AN SSSR, Mekhanika, no. 1, 1965). The laws of conservation of mass, energy, and momentum on the shock wave and the condition of impermeability of the sphere surface are taken as boundary conditions. Calculations were carried out for flows over a sphere of 0.75 cm radius in the Mach range from M_{∞} = 4 to Card 1/2

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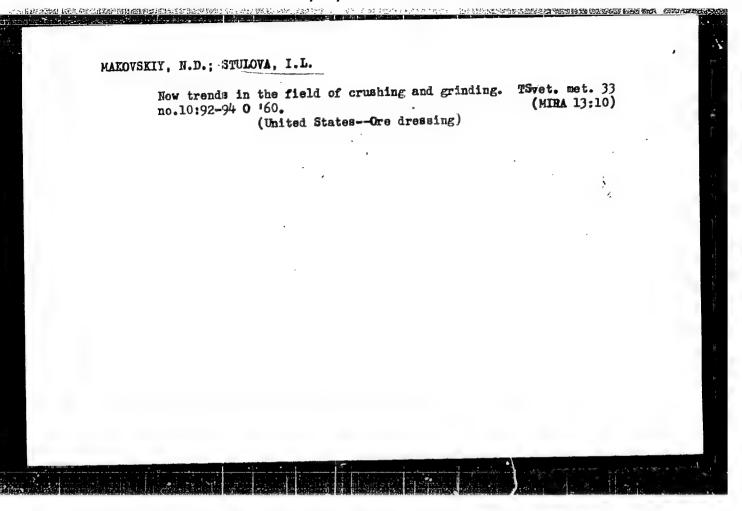
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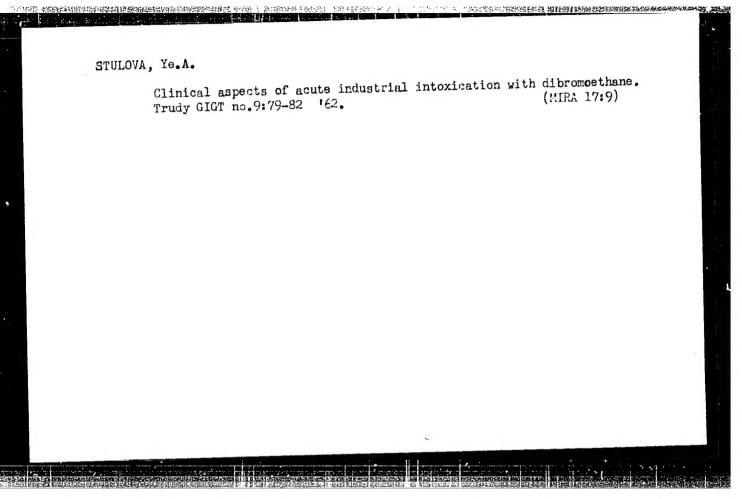
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ACCESSION NR: APSO08155 AUTHOR: Paton, B. Ye.; Dudko, D. A.; Medovar, B. I.; Latash, Yu. V.; Maksimorich, B. I.; Shevchenko, A. I.; Stupak, L. M.; Gencharenko, V. P.; Grigor'yev, L. F.; B. I.; Shevchenko, A. I.; Stupak, L. M.; Gencharenko, V. P.; Grigor'yev, L. F.; Ptulhov, C. K.; Chudin, H. I.; Lubentes, I. A.; Yartsev, M. A.; Keys, H. V.; Pulha, N. A.; Karel'nitsky, V. G.; Privalov, H. T.; Pig'mennov, V. B.; Kholodov, V. J., J., Bastrakov, N. J.; Donets, I. D.; Gilayev, A. Ya. TITLE: Method of electroslag casting of ingots. Class 18, No. 168743 TOPIC TAGS: ingot casting, ingot electroslag casting, electroslag melting, steel melting, alloy melting, metal melting ABSTRACT: This Author Certificate introduces a method of electroslag casting of ingots in an open or protective atmosphere or in vacuum, in which slag is first ingots in an open or protective atmosphere or in vacuum, in which slag is first ingots in an open or protective atmosphere or in vacuum, in which slag is first ingots in an open or protective atmosphere or in vacuum, in which slag is first ingots in an open or protective atmosphere or in vacuum, in which slag is first ingots in an open or protective atmosphere or in vacuum, in which slag is first ingots in an open or protective atmosphere or in vacuum, in which slag is first ingots in an open or protective atmosphere or in vacuum, in which slag is first ingots in an open or protective atmosphere or in vacuum, in which slag is first ingots in an open or protective atmosphere or in vacuum, or vacuum, in which slag is first ingots in an open or protective atmosphere or in vacuum, or vacuum, or vacuum, in which slag is first ingots in an open or protective atmosphere or in vacuum, or vacuum, o	

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